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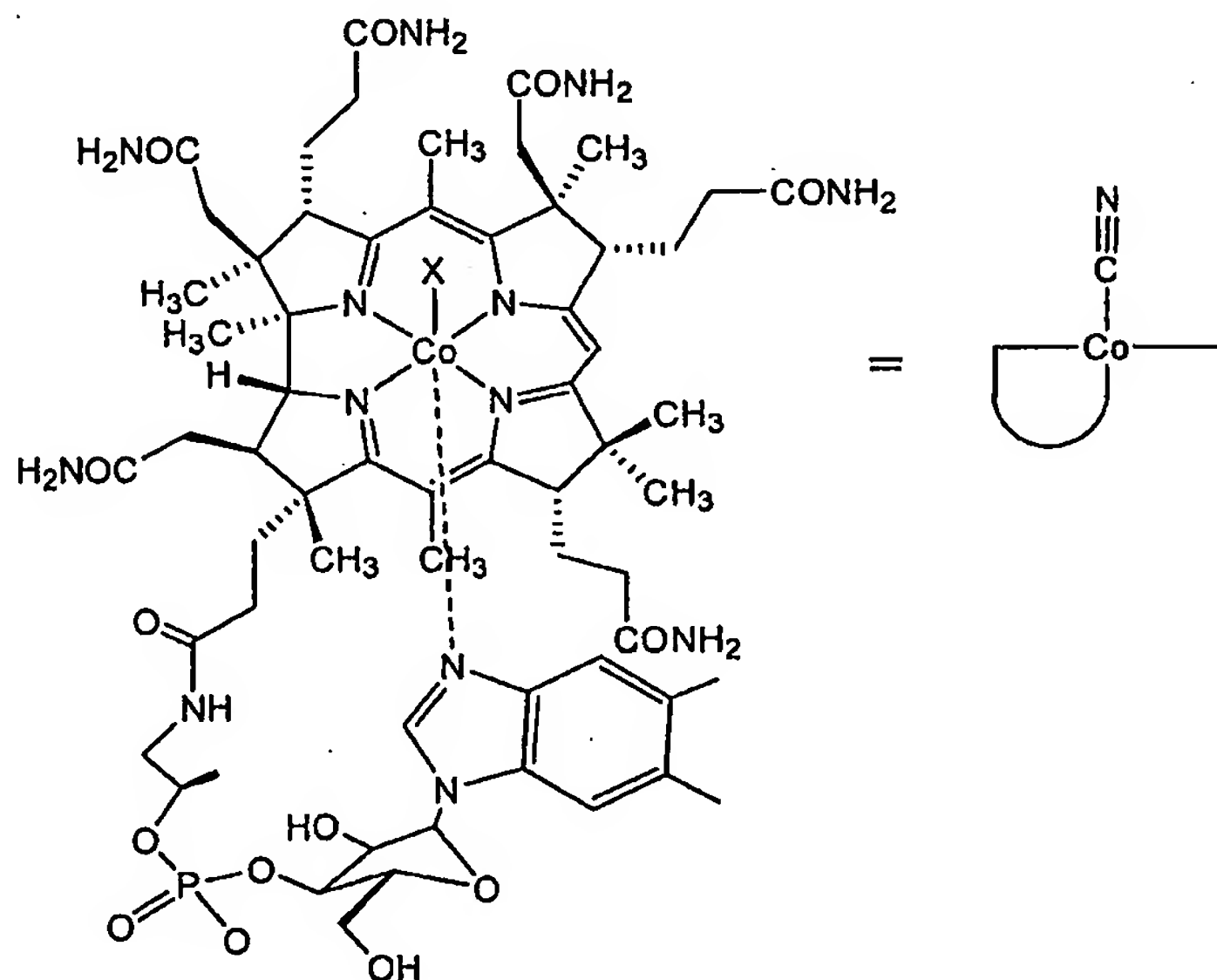
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(54) Title: METAL COMPLEXES HAVING VITAMIN B<sub>12</sub> AS A LIGAND



(57) Abstract: The present invention relates to a metal complex of the general formula  $M(L)_n$ , wherein each L is independently selected and represents a ligand and at least one L is vitamin B<sub>12</sub>(cyanocobalamin) or a derivative thereof bound through the nitrogen atom of its cyanide group to M, which is an element selected from the transition metals, thus, forming a M-NC-[Co] moiety with [Co] representing vitamin B<sub>12</sub> without cyanide and wherein n is 1, 2, 3, 4, 5 or 6. The complex can be prepared by mixing a precursor molecule with vitamin B<sub>12</sub>. The metal complexes can be used for radiodiagnostics, chemotherapy and radionuclide therapy.